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*Practice Limited to
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November 21, 2002

WRITER'S DIRECT NUMBER:
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Commissioner for Patents
Washington, D.C. 20231

Art Unit 1645

Re: U.S. Utility Patent Application
Appl. No. 10/050,902; Filed: January 18, 2002
For: **Molecular Antigen Array**
Inventors: Renner *et al.*
Our Ref: 1700.0190004/JAG/BJD/SJE

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TECH CENTER 1600/2900

Sir:

Transmitted herewith for appropriate action are the following documents:

1. First Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing the cited documents (seventy-eight (78) pages);
3. Copies of the cited documents; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
November 21, 2002
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a large, sweeping flourish at the end.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

JAG/BJD/SJE:krh

Enclosures

SKGF_DC1:77506.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,902

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7792

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190004/JAG/BJD/SJE

First Supplemental Information Disclosure Statement

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Commissioner for Patents
Washington, D.C. 20231

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Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Information Disclosure Statement is supplemental to an Information Disclosure Statement that was electronically filed on November 14, 2002.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language document AT37 cited on Form PTO 1449:

Document **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455 (1986), is in the Russian language. An unverified English language abstract (from STNEasy/CAplus) is attached as Document **AR38**.

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, filed November 30, 1999, inventors Renner *et al.*, submitted herewith as **AR77**;

U.S. Patent Application No. 10/050,898, filed January 18, 2002, inventors Renner *et al.*, submitted herewith as **AS77**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

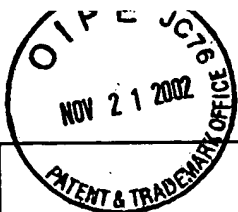


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FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>1</u>	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	<u>1</u>	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	<u>1</u>	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Page 2 of 78

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	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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A circular ink stamp from the Patent & Trademark Office. The text "PATENT & TRADEMARK OFFICE" is curved along the bottom inner edge. The date "NOV 21 2002" is stamped in the center. The top inner edge of the circle contains the number "91376".

Page 3 of 78

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	AO						Yes No
	AP						Yes No

AR	<u>3</u>	Antonyssamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
AS	<u>3</u>	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
AT	<u>3</u>	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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Page 4 of 78

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	<u>4</u>	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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Page 5 of 78

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>5</u>	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
	AS	<u>5</u>	Bard, F. et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
	AT	<u>5</u>	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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Page 6 of 78



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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
	AS	<u>6</u>	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
	AT	<u>6</u>	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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Page 7 of 78

FORM PTO-1449

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Blomfield, I.C., et al., "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	2	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
	AT	2	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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Page 8 of 78

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FORM PTO-1449

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," J. Mol. Evol. 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," Transfus. Clin. Biol. 6:17-23, Elsevier, Paris (1999)
	AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," Trans. N.Y. Acad. Sci. 27:1003-1054, New York Academy of Sciences (1965)

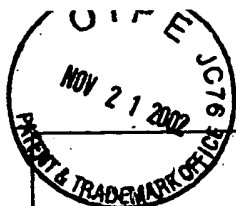
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Page 9 of 78



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	AR	2	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
	AS	2	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
	AT	2	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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	AR	<u>10</u>	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci. USA</i> 93:12890-12895, National Academy Press (1996)
	AS	<u>10</u>	Bullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," <i>Biophys. J.</i> 74:623-632, Biophysical Society (1998)
	AT	<u>10</u>	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood</i> 96:2655-2663, The American Society of Hematology (October 2000)

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NOV 22 2002

TECH CENTER 1600/2900

Page 11 of 78

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP To be assigned

U.S. PATENT DOCUMENTS

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	AN						Yes No
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	AR	<u>11</u>	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an Escherichia coli F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	<u>11</u>	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
	AT	<u>11</u>	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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NOV 22 2002

TECH CENTER 1600/2900

Page 12 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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	AR	<u>12</u>	Chabaud, M., et al., "Human Interleukin-17. A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," <i>Arthritis Rheum.</i> 42:963-970, Wiley-Liss, Inc. (1999)
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	AT	<u>12</u>	Clark, H.F, et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) From <i>Vipera russelli</i> ," <i>J. Natl. Cancer Inst.</i> 51:645-657, Oxford University Press (1973)

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NOV 22 2002

TECH CENTER 1600/2900

Page 13 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
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NOV 22 2002

TECH CENTER 1600/2900

Page 14 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

TECH CENTER 1600/2900

Page 15 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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	AT	<u>15</u>	Dealwis, C., et al., "Crystal structure of chemically synthesized [N33A] stromal cell-derived factor 1 α , a potent ligand for the HIV-1 "fusin" coreceptor," <i>Proc. Natl. Acad. Sci. USA</i> 95:6941-6946, National Academy Science (June 2001)

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NOV 22 2002

TECH CENTER 1600/2900

Page 16 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

 APPLICATION NO.
10/050,902

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RENNER et al.

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NOV 22 2002

TECH CENTER 1600/2900

Page 17 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
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	AR	<u>17</u>	Eisenmesser, E.Z., et al., "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)
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NOV 22 2002

TECH CENTER 1600/2900

Page 18 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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RENNER et al.

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AR	18	Elisseeva, E.L., et al., "NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1," <i>J. Biol. Chem.</i> 275:26799-26805, The American Society for Biochemistry and Molecular Biology, Inc. (September 2000)
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NOV 22 2002

TECH CENTER 1600/2900

Page 19 of 78



FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

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RENNER et al.

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	AS	<u>19</u>	Folkman, J., and Klagsbrun, M., "Angiogenic Factors," <i>Science</i> 235:442-447, American Association for the Advancement of Science (1987)
	AT	<u>19</u>	Folkman, J., "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nat. Med.</i> 1:27-31, Nature Publishing Company (1995)

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NOV 22 2002

TECH CENTER 1600/2900

Page 20 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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January 18, 2002GROUP
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NOV 22 2002

TECH CENTER 1600/2900

Page 21 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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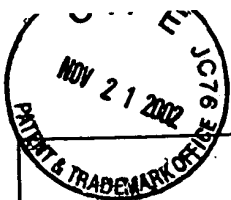
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NOV 22 2002

TECH CENTER 1600/2900

Page 22 of 78

FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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	AS	22	Golmohammadi, R., et al., "The crystal structure of bacteriophage Q β at 3.5Å resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
	AT	22	Gunn, M.D., et al., "A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1," <i>Nature</i> 391:799-803, Nature Publishing Group (1998)

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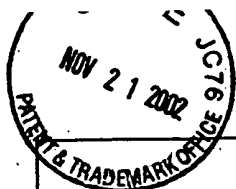
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NOV 22 2002

TECH CENTER 1600/2000

Page 23 of 78



FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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RENNER et al.

FILING DATE
January 18, 2002

GROUP
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U.S. PATENT DOCUMENTS

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NOV 22 2002

TECH CENTER 1600/2000

Page 24 of 78

FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
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	AL						Yes No
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	AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," Methods Enzymol. 267:83-109, Macmillan Publishers, Ltd. (1996)
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NOV 22 2002

TECH CENTER 1600/2900

Page 25 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
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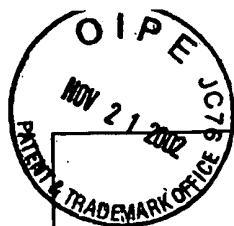
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AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," Curr. Biol. 8:369-376, Current Biology, Ltd. (1998)
AS	25	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," Proc. Natl. Acad. Sci. USA 86:8247-8251, National Academy Press (1989)
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NOV 22 2002

TECH CENTER 1600/2900

Page 26 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

TECH CENTER 1600/2900

Page 27 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
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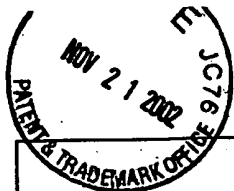
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NOV 22 2002

TECH CENTER 1600/2900

Page 28 of 78



FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
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	AT	28	Hung, D.L. and Hultgren, S.J., "Pilus Biogenesis via the Chaperone/Usher Pathway: An Integration of Structure and Function," <i>J. Struct. Biol.</i> 124:201-220, Academic Press (1998)

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NOV 22 2002

TECH CENTER 1600/2900

Page 29 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
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NOV 22 2002

TECH CENTER 1600/2900

Page 30 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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RENNER et al.

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AR	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J.</i> 12:837-847, Oxford University Press (1993)
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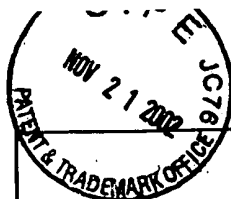
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NOV 22 2002

TECH CENTER 1600/2900

Page 31 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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FILING DATE
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	31	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:8397-8401, National Academy Press (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 32 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>32</u>	Jovanovic, D.V., et al., "IL-17 Stimulates the Production and Expression of Proinflammatory Cytokines, IL- β and TNF- α , by Human Macrophages," <i>J. Immunol.</i> 160:3513-3521, The American Association of Immunologists (1998)
	AS	<u>32</u>	Kapp, U., et al., "Interleukin 13 Is Secreted by and Stimulates the Growth of Hodgkin and Reed-Sternberg Cells," <i>J. Exp. Med.</i> 189:1939-1945, The Rockefeller University Press (1999)
	AT	<u>32</u>	Kastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1983)

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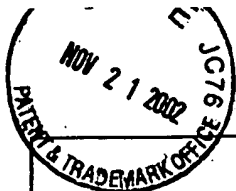
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TECH CENTER 1600/2900

Page 33 of 78



FORM PTO-1449

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NOV 22 2002

TECH CENTER 1600/2900

Page 34 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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NOV 22 2002

TECH CENTER 1600/2900

Page 35 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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NOV 22 2002

TECH CENTER 1600/2900

Page 36 of 78

FORM PTO-1449

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	AT	<u>36</u>	Koschel, M., et al., "Extensive Mutagenesis of the Hepatitis B Virus Core Gene and Mapping of Mutations That Allow Capsid Formation," <i>J. Virol</i> 73:2153-2160, American Society for Microbiology (1999)
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NOV 22 2002

TECH CENTER 1600/2900

Page 37 of 78

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
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U.S. PATENT DOCUMENTS

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NOV 22 2002

TECH CENTER 1600/2900

Page 39 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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NOV 22 2002

TECH CENTER 1600/2900

Page 40 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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	AR	<u>40</u>	Lee, K.H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
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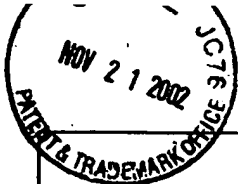
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NOV 2 2 2002

TECH CENTER 1600/2900

Page 41 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

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NOV 22 2002

TECH CENTER 1600/2000

Page 42 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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NOV 22 2002

TECH CENTER 1600/2900

Page 43 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
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U.S. PATENT DOCUMENTS

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NOV 22 2002

TECH CENTER 1600/2900

Page 44 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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U.S. PATENT DOCUMENTS

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	AR	<u>44</u>	Lum, L., et al., "Evidence for a Role of a Tumor Necrosis Factor- α (TNF- α)-converting Enzyme-like Protease in Shedding of TRANCE, a TNF Family Member Involved in Osteoclastogenesis and Dendritic Cell Survival," <i>J. Biol. Chem.</i> 274:13613-13618, The American Society for Biochemistry and Molecular Biology, Inc. (1999)
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NOV 22 2002

TECH CENTER 1600/2000

FORM PTO-1449
FIRST SUPPLEMENTAL
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ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE		APPLICATION NO. 10/050,902
APPLICANT RENNER et al.		
FILING DATE January 18, 2002		GROUP To be assigned

U.S. PATENT DOCUMENTS

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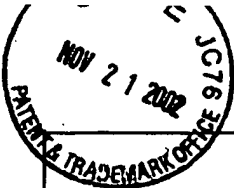
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	AR	45	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells," <i>Nature</i> 395:26-27, Macmillan Magazines, Ltd. (1998)
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	AT	45	Matsui, S.M., et al., "The Isolation and Characterization of a Norwalk Virus-Specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461, The American Society for Clinical Investigation, Inc. (1991)

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NOV 22 2002

TECH CENTER 1600/2900

Page 46 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
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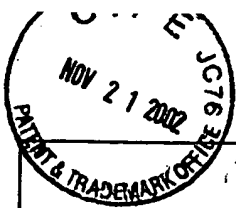
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NOV 22 2002

Page 47 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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NOV 22 2002

TECH CENTER 1600/2900

Page 48 of 78



FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

 APPLICATION NO.
10/050,902

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NOV 22 2002

TECH CENTER 1600/2900

Page 49 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

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NOV 22 2002

TECH CENTER 1600/2900

Page 50 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

TECH CENTER 1600/2900

Page 51 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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U.S. PATENT DOCUMENTS

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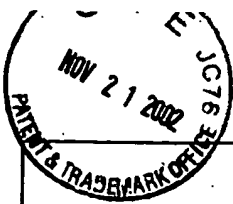
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	AT	51	Naureckiene, S., and Uhlin., B.E., "In vitro analysis of mRNA processing by Rnase E in the pap operon of <i>Escherichia coli</i> ," Mol. Microbiol. 21:55-68, Blackwell Science, Ltd. (1996)

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NOV 22 2002

TECH CENTER 1600/2900

Page 52 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
To be assigned

U.S. PATENT DOCUMENTS

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	AR	52	Neirynck, S., et al., "A universal influenza A vaccine based on the extracellular domain of the M2 protein," Nat. Med. 5:1157-1163, Nature Publishing Company (1999)
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NOV 22 2002

TECH CENTER 1600/2000

Page 53 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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NOV 22 2002

Page 54 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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AR	<u>54</u>	Olszewska, W., et al., "Protection against Measles Virus-Induced Encephalitis by Anti-mimotope Antibodies: The Role of Antibody Affinity," <i>Virology</i> 272:98-105, Academic Press (June 2000)
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NOV 22 2002

TECH CENTER 1600/2900

Page 55 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

Page 56 of 78

TECH CENTER 1600/2900

FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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NOV 22 2002

Page 57 of 78

FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

TECH CENTER 1600/2900

ATTY. DOCKET NO.
 1700.0190004/JAG/BJD/SJE

APPLICATION NO.
 10/050,902

APPLICANT
 RENNER et al.

FILING DATE
 January 18, 2002

GROUP
 To be assigned

U.S. PATENT DOCUMENTS

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	AT	<u>57</u>	Proudfoot, A.E.I., et al., "Preparation and characterization of human interleukin-5 expressed in recombinant <i>Escherichia coli</i> ," <i>Biochem. J.</i> 270:357-361, Portland Press, Ltd. (1990)

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NOV 22 2002

TECH CENTER 1600/2900

Page 58 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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U.S. PATENT DOCUMENTS

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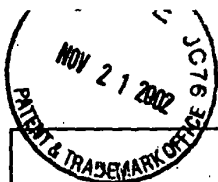
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	AS	58	Risau, W., "Mechanisms of angiogenesis," <i>Nature</i> 386:671-674, Nature Publishing Group (1997)
	AT	58	Ritter, A., et al., "The Pai-associated leuX specific tRNA ^{Leu} affects type 1 fimbriation in pathogenic <i>Escherichia coli</i> by control of FimB recombinase expression," <i>Mol. Microbiol.</i> 25:871-882, Blackwell Science, Ltd. (1997)

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NOV 22 2002

TECH CENTER 1600/2900

Page 59 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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U.S. PATENT DOCUMENTS

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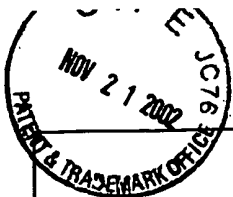
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NOV 22 2002

Page 60 of 78

TECH CENTER 1600/2900



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
To be assigned

U.S. PATENT DOCUMENTS

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AR	60	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)
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NOV 22 2002

TECH CENTER 1600/2900

Page 61 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
To be assigned

U.S. PATENT DOCUMENTS

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NOV 22 2002

TECH CENTER 1600/2900

Page 62 of 78

FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
To be assigned

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NOV 22 2002

TECH CENTER 1600/2900

Page 63 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER *et al.*FILING DATE
January 18, 2002GROUP
To be assigned

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NOV 22 2002

TECH CENTER 1600/2900

Page 64 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

TECH CENTER 1600/2000

Page 65 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
RENNER et al.FILING DATE
January 18, 2002GROUP
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	AL						Yes No
	AM						Yes No
	AN						Yes No
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NOV 22 2002

Page 66 of 78

TECH CENTER 1600/2900

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
7700.0190004/JAG/BJD/SJEAPPLICATION NO.
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NOV 22 2002

TECH CENTER 1600/2900

Page 67 of 78

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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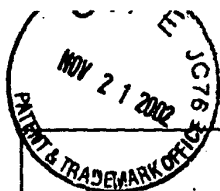
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NOV 22 2002

TECH CENTER 1600/2000

Page 68 of 78

FORM PTO-1449

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NOV 22 2002

Page 69 of 78

TECH CENTER 1000/2000

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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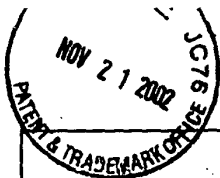
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NOV 22 2002

TECH CENTER 1600/2900

Page 70 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002

TECH CENTER 1600/2900

Page 71 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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NOV 22 2002



TECH CENTER 1600/2900

Page 72 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
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FILING DATE
January 18, 2002

GROUP
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NOV 22 2002

Page 73 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTDOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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	AR	73	Wuttke, M., et al., "Structural Characterization of Human Recombinant and Bone-derived Bone Sialoprotein," J. Biol. Chem. 276:36839-36848, The American Society for Biochemistry and Molecular Biology, Inc. (2001)
	AS	73	Wynne, S.A., et al., "The Crystal Structure of the Human Hepatitis B Virus Capsid," Mol. Cell 3:771-780, Cell Press (1999)
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NOV 22 2002

TECH CENTER 1600/2900

Page 74 of 78

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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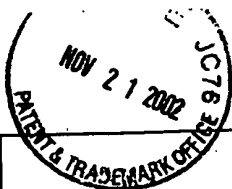
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NOV 22 2002

TECH CENTER 1600/2900

Page 75 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
10/050,902APPLICANT
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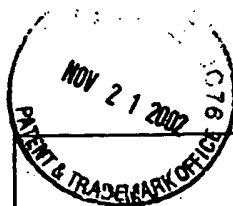
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TECH CENTER 1600/2900

Page 76 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
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 APPLICATION NO.
10/050,902

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NOV 22 2002

TECH CENTER 1600/2900

Page 77 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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	AT	77	Fehr, T., et al., "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," Proc. Natl. Acad. Sci. USA 95:9477-9481, National Academy Press (1998)

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NOV 22 2002

Page 78 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJEAPPLICATION NO.
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.